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Patent Assignment Abstract of Title

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Total Assignments: 1

Patent #: NONE Issue Dt: Application #: 10583970 Filing Dt: 06/22/2006
Publication #: 20070155625 Pub Dt: 07/05/2007
Inventors: Hirofumi Yasuda, Katsuo Suga, Masanori Nakamura, Kazuyuki Shiratori, Hironori Wakamatsu
Title: Catalyst and producing method thereof

Assignment: 1

Reel/Frame: 018057/0167 Recorded: 06/22/2006 Pages: 3

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors: YASUDA, HIROFUMI

Exec Dt: 05/12/2006

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Exec Dt: 05/15/2006

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Exec Dt: 05/12/2006

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Exec Dt: 05/12/2006

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Exec Dt: 05/12/2006

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Exhibit A

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Patent Assignment Abstract of Title

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Total Assignments: 1

Patent #: 7022842

Issue Dt: 04/04/2006

Application #: 10878048

Filing Dt: 06/29/2004

Publication #: 20050003959

Pub Dt: 01/06/2005

Inventor: Shinji Yamamoto

Title: ELECTROCATALYST AND METHOD OF MANUFACTURING THE SAME

Assignment: 1

Reel/Frame: 015534/0433

Recorded: 06/29/2004

Pages: 3

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

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Exec Dt: 06/25/2004

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Exhibit B

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2005-034836

(43)Date of publication of application : 10.02.2005

(51)Int.Cl.

B01J 23/42
B01J 23/46
B01J 23/652
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B01J 23/89
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H01M 4/92
H01M 4/96

(21)Application number : 2004-151927

(71)Applicant : NISSAN MOTOR CO LTD

(22)Date of filing : 21.05.2004

(72)Inventor : YAMAMOTO SHINJI

(30)Priority

Priority number : 2003270469 Priority date : 02.07.2003 Priority country : JP

(54) ELECTROCATALYST AND ITS PRODUCTION METHOD

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a high performance electrocatalyst having excellent dispersibility.

SOLUTION: Composite metal particles of average particle size 1-10 nm are obtained by dissolving a catalytic component into a plurality of reverse micellar solutions and are deposited on conductive carbon particles. The mixing of reverse micellar solutions containing different metals results in the formation of composite metal in reverse micelle. The composite metal particles of small average particle size can be deposited via the reverse micellar solutions and, in the electrocatalyst prepared by using the reverse micellar solutions, the composite metal particles can be deposited substantially at a regular interval on the surface and the electrocatalyst having an excellent performance can be obtained.

(18) 日本国特許庁(JP)

(12) 公開特許公報(A)

(11) 特許出願公開番号

特開2005-34836

(P2005-34836A)

(43) 公開日 平成17年2月10日(2005.2.10)

(51) Int. Cl. ⁷	F I	テーマコード (参考)
B01J 23/42	B01J 23/42 M	4G069
B01J 23/46	B01J 23/46 M	4G169
B01J 23/62	B01J 23/69 M	5H018
B01J 23/69	H01M 4/88 K	
B01J 23/69	H01M 4/90 M	
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 (33) 優先権主張国 日本国(JP)

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(54) 【発明の名称】 電極触媒およびその製造方法

(57) 【要約】

【課題】 分散性に優れた高性能の電極触媒を提供する。

【解決手段】 逆ミセル溶液に触媒成分を溶解して平均粒子径が1～10nmの金属粒子を得て、これを導電性カーボン粒子に担持させることを特徴とする。異なる金属を含む逆ミセル溶液を混合することで、逆ミセル中で複合金属を形成させることもできる。逆ミセル溶液を介すると金属粒子は平均粒子径が小さく、かつ逆ミセル溶液を使用して調製された電極触媒は、その表面に略等間隔に金属粒子を担持させることができ、得られる電極触媒は、その性能に優れる。

【選択図】 なし